

Q-STACKER

FIFO Plate Stacker



Q-Stacker Model: QR-210



KiNEDx Robot Unloading Q-Stacker

- First-In-First-Out Cycling
- Queue Staging
- Continuous Batch Sequence
- Room Temperature Incubation
- Cell Based Assays
- Simple Serial Commands

Q-STACKER

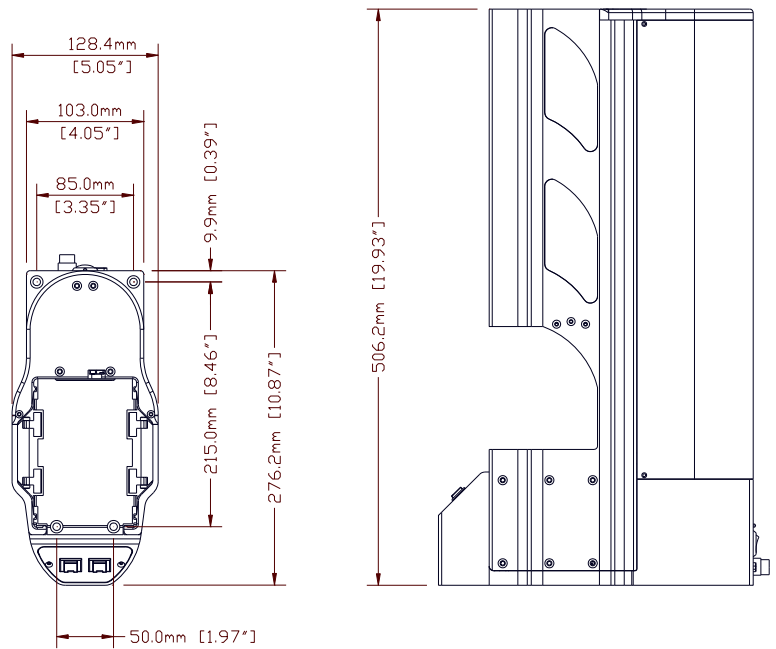
FIFO Stacker: The Q-Stacker is a true *First-In-First-Out* plate stacker for continuous cycling and queue staging of microtiter plates. The compact package runs manually as well as automatically for robotic applications such as with the Peak KiNEDx Robot.

Mechanism: The simplistic patent-pending mechanism is based on a vertical plate accumulator that loads plates from the bottom and presents them for removal at the top. A single servomotor powers the entire stacker giving it much of its simplicity and reliability.

Software: Automatic control is easily accomplished using a small set of serial commands. In addition, the Q-Stacker can be run as a stand-alone device using the manual push-button switches.

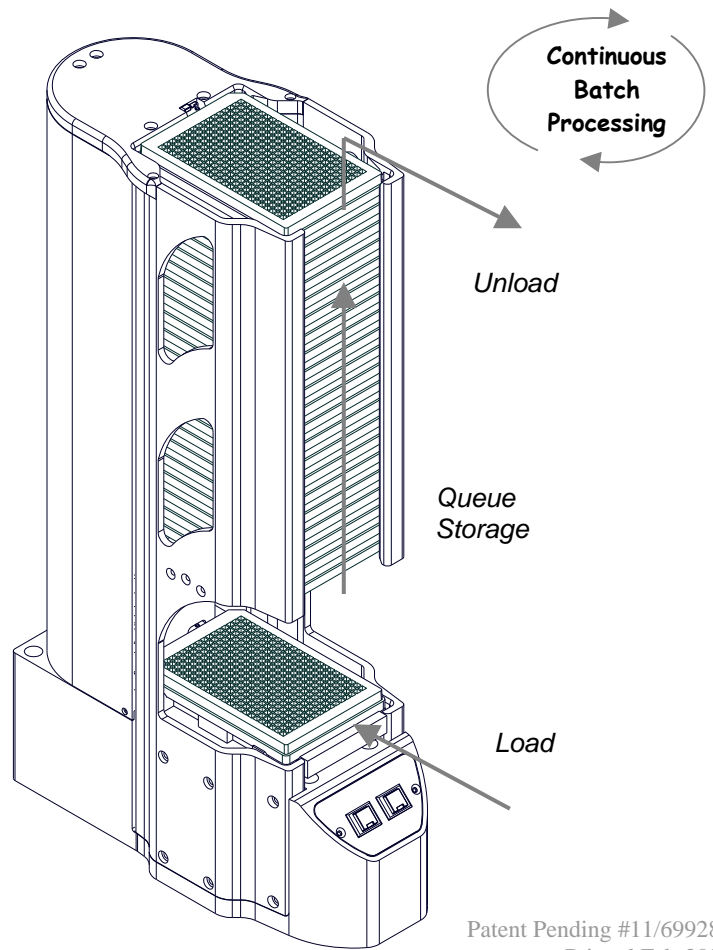
Controller: No separate controller is required. All electronics and serial buffer reside onboard and a single serial cable connects between the stacker and optional PC.

Applications: The Q-Stacker is designed for demanding applications requiring batch processing of microtiter plates or multiple room-temperature incubations such as with cell-based assays. The Q-Stacker can often replace much larger random-access Carousel and Hotel storage schemes.



Plan View

Elevation View



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| Specifications: | |
|--------------------------|---|
| Capacity: | |
| Shallow Well Microplates | 48 Microplates |
| Standard Microplates | 21 Microplates |
| Deep Well Microplates | 6 Microplates |
| Speed: | |
| Vertical | 250 mm/s (10 in/sec) |
| Time: Load-Cycle | 4 Sec |
| Time: Unload-Cycle | 8 Sec |
| Environment: | |
| Temperature - Min | 2 deg-C (36 deg-F) |
| Temperature - Max | 40 deg-C (104 deg-F) |
| Weight: | 9 kg (20 Lb) |
| Power: | 24 VDC, 2a Supplied In-Line Power Supply, 100-250 VAC |
| Compliance: | CE, FCC |